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### 1 [Overlay networks, peer-to-peer computing an event-based middleware: Introducing reliability in content-based publish-subscribe through epidemic algorithms](#)



Paolo Costa, Matteo Migliavacca, Gian Pietro Picco, Gianpaolo Cugola

 June 2003 **Proceedings of the 2nd international workshop on Distributed event-based systems**

 Full text available: [pdf\(208.89 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Distributed content-based publish-subscribe middleware provides the necessary decoupling, flexibility, expressiveness, and scalability required by modern distributed applications. Unfortunately, this middleware usually does not provide reliability, especially in the presence of highly reconfigurable scenarios. Indeed, this problem has been thus far largely disregarded by the research community and solutions developed in other contexts are not immediately applicable. In this paper, we tackle the p ...

### 2 [Maintenance of the computer sciences teleprocessing system](#)



D.E. W. Bucher

 April 1975 **ACM SIGPLAN Notices , Proceedings of the international conference on Reliable software**, Volume 10 Issue 6

 Full text available: [pdf\(580.97 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the maintenance and enhancement of the Computer Sciences Teleprocessing System (CSTS) and its component processors. CSTS is the system offered by the INFONET Division of Computer Sciences Corporation to provide nationwide conversational and batch teleprocessing service. In the first section, the organization of the project personnel and major activities of project departments are described. The second section describes the process by which functional enhancements and er ...

**Keywords:** Change control, Computer sciences, Maintenance, Operating system, Project management, Software, Teleprocessing system, Testing

### 3 [Applications and OS: Smart-tag based data dissemination](#)



Allan Beaufour, Martin Leopold, Philippe Bonnet

 September 2002 **Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications**

 Full text available: [pdf\(230.05 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Monitoring wide, hostile areas requires disseminating data between fixed, disconnected clusters of sensor nodes. It is not always possible to install long-range radios in order to cover the whole area. We propose to leverage the movement of mobile individuals, equipped with smart-tags, to disseminate data across disconnected static nodes spread across a wide area. Static nodes and mobile smart-tags exchange data when they are in the vicinity of each

other; smart-tags disseminate data as they mov ...

**Keywords:** bluetooth, epidemic replication, smart-tags

#### 4 Data management support for asynchronous groupware

Nuno Pregoça, J. Legatheaux Martins, Henrique Domingos, Sérgio Duarte

December 2000 **Proceedings of the 2000 ACM conference on Computer supported cooperative work**

Full text available:  [pdf\(190.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In asynchronous collaborative applications, users usually collaborate accessing and modifying shared information independently. We have designed and implemented a replicated object store to support such applications in distributed environments that include mobile computers. Unlike most data management systems, awareness support is integrated in the system. To improve the chance for new contributions, the system provides high data availability. The development of applications is supported by ...

**Keywords:** asynchronous groupware, awareness, development support, mobile computing, object framework

#### 5 A linear iteration time layout algorithm for visualising high-dimensional data

Matthew Chalmers

October 1996 **Proceedings of the 7th conference on Visualization '96**

Full text available:  [pdf\(3.60 MB\)](#)  Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

**Keywords:** force-directed placement, high-dimensional data, layout algorithms, spring models, stochastic algorithms, visualization

#### 6 Reverse engineering to the architectural level

David R. Harris, Howard B. Reubenstein, Alexander S. Yeh

April 1995 **Proceedings of the 17th international conference on Software engineering**

Full text available:  [pdf\(948.57 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

#### 7 Enterprise information architectures—they're finally changing

Wesley P. Melling

May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2


Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Substantive changes in the business environment—and aggressive initiatives in business process reengineering—are driving corresponding changes in the information technology architectures of large enterprises. Those changes are enabled by the convergence of a long list of maturing new technologies. As one of its many implications, the new IT architecture demands revised assumptions about the design and deployment of databases. This paper reviews the components of the architecture ...

#### 8 Performance evaluation of MAX: the Maintenance Administrator Expert System

Erica J. Wolin


December 1993 **Proceedings of the second international conference on Information and knowledge management**

Full text available:  [pdf\(396.00 KB\)](#) Additional Information: [full citation](#), [index terms](#)

## 9 Satellite-based information services: Cost based data dissemination in satellite networks

Bo Xu, Ouri Wolfson, Sam Chamberlain, Naphtali Rishe

January 2002 **Mobile Networks and Applications**, Volume 7 Issue 1

Full text available:  [pdf \(312.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)





We consider the problem of data dissemination in a broadcast network. In contrast to previously studied models, broadcasting is among peers, rather than client server. Such a model represents, for example, satellite communication among widely distributed nodes, sensor networks, and mobile ad hoc networks. We introduce a cost model for data dissemination in peer to peer broadcast networks. The model quantifies the tradeoff between the inconsistency of the data, and its transmission cost; the tran ...

**Keywords:** data replication, distributed databases, satellite networks

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